

## **ABSTRACT OF THE DISCLOSURE**

An apparatus (1) and a method for thin-layer metrology of semiconductor substrates (16) are disclosed. The semiconductor substrates (16) are delivered or transported to the apparatus (1) by means of at least one cassette element. A measurement unit (5) for thin-layer micrometrology is provided in the apparatus (1), the semiconductor substrates being conveyed by means of a transport mechanism (7) from the cassette element (3) to the measurement unit (5) for thin-layer micrometrology. A measurement unit (9) for thin-layer macrometrology is provided in the region of the transport mechanism (7) after the cassette element (3). By means of the measurement unit (9) for thin-layer macrometrology, measurement locations (22) on the semiconductor substrate that require more detailed examination in the measurement unit (5) for thin-layer micrometrology can rapidly be identified.

(FIG. 1)